

WHAT IS CLAIMED IS:

1. A data processing apparatus which can transmit  
a printing job to an image recording apparatus having  
plural holding units each capable of holding plural  
5 sheets or an image recording apparatus capable of  
connecting with an option apparatus having plural  
holding units, said data processing apparatus  
comprising:

holding unit name registration means for  
10 accepting, in order to register plural discrimination  
names including a user name and names of plural groups  
to which a user corresponding to the user name belongs  
for each of the plural holding units of said image  
recording apparatus, designation of the user name and  
15 the names of the plural groups to which the user  
corresponding to the user name belongs, and for  
transmitting the designation content to said image  
recording apparatus;

holding unit name capture means for capturing the  
20 plural discrimination names registered to each of the  
holding units of said image recording apparatus, from  
said image recording apparatus; and

job creation means for accepting, when creating  
the printing job, designation that the plural  
25 discrimination names captured by said holding unit name  
capture means are set as sheet discharge addresses of  
the printing job, and actually creating the printing

job including the accepted sheet discharge address designation by the plural discrimination names.

2. An apparatus according to Claim 1, wherein  
5 said holding unit name registration means also accepts designation of an E-mail address of the user corresponding to the designated user name, and transmits the designation content including the E-mail address to said image recording apparatus.

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3. An apparatus according to Claim 1, wherein the discrimination name is information representing an owner who exclusively uses the holding unit.

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4. An apparatus according to Claim 1, wherein  
said holding unit name registration means inputs or selectively designates the user name and the names of the plural groups to which the user corresponding to the user name belongs in order to register the plural  
20 discrimination names for each of the holding units of said image recording apparatus.

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5. A data processing apparatus which can transmit a printing job to an image recording apparatus having  
25 plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said data processing apparatus

comprising:

holding unit name capture means for capturing from  
said image recording apparatus plural discrimination  
names registered to each of the holding units of said  
5 image recording apparatus, the plural discrimination  
names including a user name and names of plural groups  
to which a user corresponding to the user name belongs;  
and

10 job creation means for accepting, when creating  
the printing job, designation that the plural  
discrimination names captured by said holding unit name  
capture means are set as sheet discharge addresses of  
the printing job, and actually creating the printing  
job including the accepted sheet discharge address  
15 designation by the plural discrimination names.

6. An apparatus according to Claim 5, further  
comprising:

20 sheet discharge information capture means for  
capturing sheet discharge end information and holding  
unit monitoring information notified by said image  
recording apparatus; and

25 display means for displaying a message to the user  
on the basis of the sheet discharge end information and  
the holding unit monitoring information captured by  
said sheet discharge information capture means.

7. An apparatus according to Claim 6, wherein  
said sheet discharge information capture means captures  
E-mail addresses registered to all the holding units to  
which the sheet discharge was performed, when a sheet  
5 discharge end notification of the printing job is  
received, and

transmission means is provided to transmit an E-  
mail notifying the sheet discharge end to the E-mail  
addresses captured by said sheet discharge information  
10 capture means.

8. An apparatus according to Claim 6, wherein  
said job creation means accepts designation whether or  
not an E-mail notification after printing end should be  
15 performed, and adds the designation whether or not the  
E-mail notification should be performed to the printing  
job on the basis of this designation.

9. An apparatus according to Claim 7, further  
20 comprising E-mail notification designation means for  
designating whether or not an E-mail notification after  
printing end should be performed,

wherein, when the sheet discharge end notification  
of the printing job is received by said sheet discharge  
25 information capture means, said transmission means  
controls the E-mail notification on the basis of a  
designation state of said E-mail notification

designation means.

10. An apparatus according to Claim 7, wherein  
the E-mail includes information such as a name of the  
5 user designating the printing job, a content of the  
printing job, the number of printing in the printing  
job, the number of output copies in the printing job, a  
date when the printing job was output, and the like,  
and information concerning the image recording  
10 apparatus from which the printing job was output.

11. An apparatus according to Claim 7, wherein  
said transmission means transmits the E-mail to the E-  
mail address of the user corresponding to the user name  
15 registered to the holding unit to which the printing  
job was discharged or the E-mail address of each user  
who belongs to the group corresponding to the group  
name registered to the holding unit to which the  
printing job was discharged.

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12. An image recording apparatus which can sort  
plural printing jobs received from plural superior  
apparatuses through a predetermined communication  
medium and discharge the sorted printing jobs to plural  
25 holding units, said image recording apparatus  
comprising:

registration means for registering in a memory

plural discrimination names to each of the holding units, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs and being  
5 transmitted from each of said superior apparatuses or directly designated from an operation unit;

discrimination name notification means for notifying said superior apparatus of the plural discrimination names registered by said registration  
10 means, in accordance with a request from said superior apparatus; and

sheet discharge control means for discharging the printing job to which the discrimination name has been designated to the holding unit to which the  
15 discrimination name same as the discrimination name designated as a sheet discharge address to the printing job has been designated.

13. An apparatus according to Claim 12, further  
20 comprising sheet discharge end notification means for notifying said superior apparatus of the end of an image recording process of the printing job, after the image recording process of the printing job was ended by said sheet discharge control means; and

25 holding unit monitoring means for always monitoring a state of each of the holding units, updating the state, and if necessary notifying said

superior apparatus of a change of the holding unit state.

14. An apparatus according to Claim 12, wherein  
5 said registration means stores a discrimination name  
registration content including an E-mail address  
notified from said superior apparatus in the memory,  
and

E-mail transmission means is provided to transmit  
10 an E-mail notifying the sheet discharge end in  
accordance with E-mail addresses registered to the  
respective holding units to which the printing job was  
discharged, after an image recording process of the  
printing job was ended by said sheet discharge control  
15 means.

15. An apparatus according to Claim 14, wherein  
said E-mail transmission means controls whether or not  
an E-mail notification should be performed, on the  
20 basis of an instruction whether or not the E-mail  
notification designated to the printing job should be  
performed.

16. An apparatus according to Claim 13, wherein  
25 said registration means stores a discrimination name  
registration content including an E-mail address in the  
memory, and

said sheet discharge end notification means notifies said superior apparatus of the E-mail addresses registered to all the holding units to which the printing job was discharged, after the image recording process of the printing job was ended by said sheet discharge control means.

10 17. An apparatus according to Claim 14, wherein the E-mail includes information such as a name of the user designating the printing job, a content of the printing job, the number of printing in the printing job, the number of output copies in the printing job, a date when the printing job was output, and the like, and information concerning the image recording apparatus from which the printing job was output, and

15 said E-mail transmission means transmits the E-mail to the E-mail address of the user corresponding to the user name registered to the holding unit to which the printing job was discharged or the E-mail address of the user who belongs to the group corresponding to the group name registered to the holding unit to which the printing job was discharged.

20 18. An apparatus according to Claim 12, wherein the discrimination name is information representing an owner who exclusively uses the holding unit, and is obtained by directly inputting or selecting a name



according to a user's usage by the user on said superior apparatus or said operation unit.

19. An apparatus according to Claim 12, wherein  
5 plural holding units are provided on the body of said image recording apparatus, or an option apparatus having plural holding units is connectable.

20. A control method for a data processing  
10 apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said method comprising:

15 a holding unit name registration step of accepting, in order to register plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs for each of the plural holding units of the image  
20 recording apparatus, designation of the user name and the names of the plural groups to which the user corresponding to the user name belongs, and of transmitting the designation content to the image recording apparatus;

25 a holding unit name capture step of capturing the plural discrimination names registered to each of the holding units of the image recording apparatus, from

the image recording apparatus; and

5 a job creation step of accepting, when creating the printing job, designation that the plural discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job including the accepted sheet discharge address designation by the plural discrimination names.

10 21. A control method for a data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an image recording apparatus capable of connecting with an option apparatus having plural holding units, said  
15 method comprising:

a holding unit name capture step of capturing from the image recording apparatus plural discrimination names registered to each of the holding units of the image recording apparatus, the plural discrimination  
20 names including a user name and names of plural groups to which a user corresponding to the user name belongs; and

a job creation step of accepting, when creating the printing job, designation that the plural  
25 discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job

including the accepted sheet discharge address designation by the plural discrimination names.

22. A control method for an image recording apparatus which can sort printing jobs received from plural superior apparatuses through a predetermined communication medium and discharge the sorted printing jobs to plural holding units, said method comprising:
- a registration step of registering in a memory plural discrimination names to each of the holding units, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs and being transmitted from each of said superior apparatuses or directly designated from an operation unit;
  - a discrimination name notification step of notifying the superior apparatus of the registered plural discrimination names, in accordance with a request from the superior apparatus; and
  - a sheet discharge step of discharging the printing job to which the discrimination name has been designated to the holding unit to which the discrimination name same as the discrimination name designated as a sheet discharge address to the printing job has been designated.

23. A storage medium which computer-readably

stores a program for causing a data processing  
apparatus which can transmit a printing job to an image  
recording apparatus having plural holding units or an  
image recording apparatus capable of connecting with an  
5 option apparatus having plural holding units, to  
execute:

a holding unit name registration step of  
accepting, in order to register plural discrimination  
names including a user name and names of plural groups  
10 to which a user corresponding to the user name belongs  
for each of the plural holding units of the image  
recording apparatus, designation of the user name and  
the names of the plural groups to which the user  
corresponding to the user name belongs, and of  
15 transmitting the designation content to the image  
recording apparatus;

a holding unit name capture step of capturing the  
plural discrimination names registered to each of the  
holding units of the image recording apparatus, from  
20 the image recording apparatus; and

a job creation step of accepting, when creating  
the printing job, designation that the plural  
discrimination names captured from the image recording  
apparatus are set as sheet discharge addresses of the  
25 printing job, and actually creating the printing job  
including the accepted sheet discharge address  
designation by the plural discrimination names.

24. A storage medium which computer-readably stores a program for causing a data processing apparatus which can transmit a printing job to an image recording apparatus having plural holding units or an  
5 image recording apparatus capable of connecting with an option apparatus having plural holding units, to execute:

a holding unit name capture step of capturing from the image recording apparatus plural discrimination  
10 names registered to each of the holding units of the image recording apparatus, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs; and

15 a job creation step of accepting, when creating the printing job, designation that the plural discrimination names captured from the image recording apparatus are set as sheet discharge addresses of the printing job, and actually creating the printing job  
20 including the accepted sheet discharge address designation by the plural discrimination names.

25. A storage medium which computer-readably stores a program for causing an image recording  
25 apparatus which can sort printing jobs received from plural superior apparatuses through a predetermined communication medium and discharge the sorted printing

jobs to plural holding units, to execute:

a registration step of registering in a memory plural discrimination names to each of the holding units, the plural discrimination names including a user name and names of plural groups to which a user corresponding to the user name belongs and being transmitted from each of said superior apparatuses or directly designated from an operation unit;

a discrimination name notification step of notifying the superior apparatus of the registered plural discrimination names, in accordance with a request from the superior apparatus; and

a sheet discharge step of discharging the printing job to which the discrimination name has been designated to the holding unit to which the discrimination name same as the discrimination name designated as a sheet discharge address to the printing job has been designated.

26. An image recording apparatus which can connect with a sheet processing apparatus having plural storage units capable of storing sheets, comprising:

reception means for receiving data including image data from a remote data processing apparatus;

image recording means for recording an image based on the received image data, on a sheet; and

control means for performing control, according as

first data instructing to distribute the sheets to the storage unit belonging to which of plural groups of the grouped storage units is included in the data received from said remote data processing apparatus, to

5 distribute the sheets on which the image data from said remote data processing apparatus has been recorded to the storage unit belonging to the group according to the first data.

10 27. An apparatus according to Claim 26, wherein, when second data discriminatingly instructing for each storage unit to distribute the sheets to which of the plural storage units is included in the data received from said remote data processing apparatus together  
15 with the first data, said control means performs control to distribute the sheets on which the image data from said remote data processing apparatus has been recorded to the storage units belonging to the group according to the first data and the storage unit  
20 according to the second data.

28. An apparatus according to Claim 26, wherein, according as the first data is included in the data received from said remote data processing apparatus,  
25 the image recording of the image data of a same page is performed plural times without receiving the image data of the same page from said remote data processing

apparatus plural times.

29. An apparatus according to Claim 27, further comprising notification means for notifying each user  
5 belonging to the group according to the first data and a user according to the second data that the sheets were distributed.

30. A data processing apparatus which can  
10 transmit data including image data to be recorded, to an image recording apparatus capable of connecting with a sheet processing apparatus having plural storage units capable of storing sheets, said data processing apparatus comprising:

15 generation means for generating first data based on an operator's instruction for instructing to distribute the sheets to the storage units belonging to which of plural groups of the grouped storage units; and

20 transmission means for correlating the first data with the image data and transmitting the correlated data to said image recording apparatus.

31. An apparatus according to Claim 30, wherein  
25 said generation means can generate, together with the first data, second data based on an operator's instruction for discriminatingly instructing for each



storage unit to distribute the sheets to which of the plural storage units, and

said transmission means can make as the data to be transmitted to said image recording apparatus a set of the first data and the second data, correlate the set of the data with the image data, and transmit the correlated data.

32. An apparatus according to Claim 31, further comprising capture means for capturing storage unit information output from said image recording apparatus and previously set for the plural storage units, in accordance with a request from said data processing apparatus; and

display control means for causing a display unit to display a screen based on the captured information,

wherein said transmission means can make the set of the first data and the second data both generated based on the operator's instructions input through said screen as the data to be transmitted to said image recording apparatus, correlate the set of the data with the image data, and transmit the correlated data.

33. A control method for an image recording apparatus which can connect with a sheet processing apparatus having plural storage units capable of storing sheets, said method comprising:

a reception step of receiving data including image data from a remote data processing apparatus;

an image recording step of recording an image based on the received image data, on a sheet; and

5 a control step of performing control, according as first data instructing to distribute the sheets to the storage unit belonging to which of plural groups of the grouped storage units is included in the data received from the remote data processing apparatus, to  
10 distribute the sheets on which the image data from the remote data processing apparatus has been recorded to the storage unit belonging to the group according to the first data.

15 34. A computer-readable storage medium which stores a program to cause an image recording apparatus which can connect with a sheet processing apparatus having plural storage units capable of storing sheets, to execute:

20 a reception step of receiving data including image data from a remote data processing apparatus;

an image recording step of recording an image based on the received image data, on a sheet; and

a control step of performing control, according as  
25 first data instructing to distribute the sheets to the storage unit belonging to which of plural groups of the grouped storage units is included in the data received

from the remote data processing apparatus, to  
distribute the sheets on which the image data from the  
remote data processing apparatus has been recorded to  
the storage unit belonging to the group according to  
5 the first data.

35. A data processing method which can transmit  
data including image data to be recorded, to an image  
recording apparatus capable of connecting with a sheet  
10 processing apparatus having plural storage units  
capable of storing sheets, said method comprising:

a generation step of generating first data based  
on an operator's instruction for instructing to  
distribute the sheets to the storage units belonging to  
15 which of plural groups of the grouped storage units;  
and

a transmission step of correlating the first data  
with the image data and transmitting the correlated  
data to the image recording apparatus.

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36. A computer-readable storage medium which  
stores a program to cause a data processing apparatus  
which can transmit data including image data to be  
recorded, to an image recording apparatus capable of  
25 connecting with a sheet processing apparatus having  
plural storage units capable of storing sheets, to  
execute:

a generation step of generating first data based on an operator's instruction for instructing to distribute the sheets to the storage units belonging to which of plural groups of the grouped storage units;

5 and

a transmission step of correlating the first data with the image data and transmitting the correlated data to the image recording apparatus.